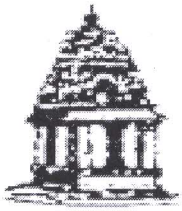

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: KODIGEHALLI

Name of Work: *Modified Estimate for Providing Water Supply through Drilling new Borewells and Water Pipe line in Amruthalli Jakkur, Sahakaranagara, GKVK Layout, Yoshdhanagara, Padma Tent Road, L and T layout, Byatarayanapura and Surrounding areas in Ward No. 07, Byatarayanapura.*

Job Code: 007-18-000014

Estimated Cost: Rs. 99.00 Lakh(s)
Modified Amount: Rs. 98,99,621.00

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of Work: Modified Estimate for Providing Water Supply through Drilling new Borewells and Water Pipe line in Amruthalli Jakkur, Sahakaranagara, GKVK Layout, Yoshdhanagara, Padma Tent Road, L and T layout, Byatarayanapura and Surrounding areas in Ward No. 07, Byatarayanapura.

007-18-000014		P-3293 14th Finance					Est Cost Rs.		9899621.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction **(P.48, I. 9.4) PRED.SR 2012-13**	Each BW							
			9				**9**	1938.46	**17446.00**
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) **P. 46 / I. 9.1 PRED SR 2012-13**	Rmtr							
	0 to 50 m		9	50.00			**450.00**	315.18	**141831.00**
	50 to 100 m		9	50.00			**450.00**	412.00	**185400.00**
	100 to 150 m		9	50.00			**450.00**	458.35	**206258.00**
	150 to 200 m		9	50.00			**450.00**	484.10	**217845.00**
	200 to 250 m		9	50.00			**450.00**	560.32	**252144.00**
	250 to 300 m		9	50.00			**450.00**	600.49	**270221.00**
3	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by baseic open hearth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming tio IS 554/1985, one end fixied with socket confirming to IS 4270:2001 and the other end with screwed pipes ISI Marking weighing 25.10Kg/mtr (Inclusive of all taxes and durties) Prices include Collar-medium duty **P. iii, I No. 84 PRED SR 2012-13**	Rmtr							
			9	70.00			**630.00**	1325.00	**834750.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	Providing 250mm dia PVC Pipe 6kg/cm **BWSSB SR 2014-15 Page No. 53, Item No. 1(ii)**	Rmtr							
			9	18.00			**162.00**	1100.00	**178200.00**
5	Providing and fixing 160mm Borewell Cap **P. iii, I No. 85 PRED SR 2012-13**	Each							
			9				**9**	100.00	**900.00**
6	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps **PWD SR 2015-17 P. XXXXII Item No. 21, 24, 33 including of all taxes**	No							
	15.00 HP 30 Stage		2				**2**	70600.00	**141200.00**
	12.50 HP 25 Stage		4				**4**	60400.00	**241600.00**
	10.00 HP 20 Stage		3				**3**	50100.00	**150300.00**
7	KSRB13-3.6 : Providing and fixing in trenches galvanised / mild steel tubes (medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.6 **Page No. 89, Item No. 13.15 PWD SR 2016-17**	m							
			9	280.00			**2520.00**	457.92	**1153958.00**
	Basic Rate	432.00							
	Area Weightage @ 6%	25.92							
	Total	**457.92**							
8	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 & confirming to GTP of **GROUP-A. P. No. 12 / I No. 2.10.4(1) 3C x 4 Sqm mm KPWD Electrical SR 2014-15**	Mtr							
			9x2	290.00			**5220.00**	126.70	**661374.00**
9	Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation (Each lenth =6.00) **Page No. 558, Items No-3 BWSSB SR for 2014-15)**	Per Length							
			9	49.00			**441**	88.00	**38808.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
10	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., **P No. 44 / I No. 6.6.6 KPWD Electrical SR 2014-15**	Each							
			9				**9**	302.00	**2718.00**
11	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A **P No. 55/ I No. 7.4.4 4 core 16 Sqmm KPWD Electrical SR 2014-15**	Mtr							
			9	35.00			**315.00**	140.40	**44226.00**
12	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. **P No. 61 / I No. 7.8.1 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15**	Mtr							
			9	35.00			**315.00**	10.80	**3402.00**
13	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) **P No. 61 / I. No. 7.9.3 KPWD Electrical SR 2014-15**	Mtr							
	For Cutting Road Surface		9	30.00			**270.00**	85.00	**22950.00**
14	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV **P. No. 62 / I No. 7.12.1 KPWD Electrical SR 2014-15**	Mtr							
	40mm dia GI pipe		9	4.00			**36.00**	345.00	**12420.00**
15	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No. 62 / I.No. 7.13.2 KPWD Electrical SR 2014-15**	No.							
	16Sqmm		9				**9.00**	280.00	**2520.00**
16	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia, **(P No. 55, I No. 7.1) KPWD Electrical SR 2014-15**	No							
			9				**9**	2727.00	**24543.00**
17	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.**P No. 44 / I No. 6.7.2 KPWD Electrical SR 2014-15**	No.							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	32 Amps		9x6				**54**	180.00	**9720.00**
18	KSRB13-7.1-4 : Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.10 / 13.13 **Page No. 93, Item No. 13.55, PWD SR 2016-17**	Nos							
			9				**9**	1585.76	**14272.00**
	Basic Rate	1496.00							
	Area Weightage @ 6%	89.76							
	Total	**1585.76**							
19	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete.- **for 50mm dia**: **Page No. 95 , Item No. 13.81.3 PWD SR 2016-17**	Each							
	50mm dia		9				**9**	227.90	**2051.00**
	Basic Rate	215.00							
	Area Weightage @ 6%	12.90							
	Total	**227.90**							
20	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc complete **P. XXXVII PWD SR 2016-17**	No							
			9	4.00			**36**	104.30	**3755.00**
21	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. **5-32Amps Group A TPN P No. 47 / I No.6.16.5 KPWD SR 2014-15**	No							
			9				**9**	1547.00	**13923.00**
22	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete **P.No. 57, I. No. 6.41.2 KPWD Electrical SR 2014-15**	Sq.Cm							
	16SWG		9x2	120.00	60.00		129600.00		
			9	360.00	25.00		81000.00		
							210600.00	0.33	**69498.00**
23	Supplying fully automatic store detta starter unit push button type with suitable wires three contractors one adjustable termal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3pase and wired offter fixing to the wooden board for motor upto **12.50 HP (KPWD electrical SR for 2014-15 Page No. 44 Item No. 6.2.1)**	No.							
			9				**9**	6583.00	**59247.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
25	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including sharing and strutting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole. **Page No. 01/ Item No.1.2.2 / PRED SR 2012-13 Hard Soil**	Cum							
			9	345.00	0.60	0.65	1210.95		
	Total Qty						**1210.95**		
	Qty upto 125%						**468.00**	188.00	**87984.00**
	Qty Above 125%						**742.95**	188.00	**139675.00**
26	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.15 item No.3.4.2 b PRED SR 2012-13.**	Rmtr							
	75 mm dia 6 KSC PVC pipe		9	345.00			3105.00		
	Total Qty						**3105.00**		
	Qty upto 125%						**1200.00**	157.00	**188400.00**
	Qty Above 125%						**1905.00**	157.00	**299085.00**
27	KSRRB M1200-46. Sand filling in wells complete as per drawing and technical specifications MORTH Specification No.1207 Page No. 213, **Page No. 26.124, PWD SR 2016-17**	Cum							
			9	345.00	0.60	0.30	558.90		
	Total Qty						**558.90**		
	Qty upto 125%						**216.00**	2922.42	**631243.00**
	Qty Above 125%						**342.90**	2922.42	**1002098.00**
28	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs **Page No. 3 / Item No. 1.6 / PRED SR 2012-13**	Cum							
	Total Qty		Qty. Vide Item No. 25-27				**652.05**		
	Qty upto 125%						**252.00**	61.00	**15372.00**
	Qty Above 125%						**400.05**	61.00	**24403.00**
29	KSRB13-6.3-7 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **65mm nominal bore** including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. **P. No.92 / I. No. 13.38 PWD SR 2016-17**	Each							
	Total Qty		33				**33**		
	Qty upto 125%						**15**	2729.50	**40943.00**
	Qty Above 125%						**18**	2729.50	**49131.00**
	ROOM FOR RO PLANT								

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
30	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 **Page No. 5 / Item No. 2.3 of PWD SR 2016-17**	Cum							
	Centre Line		1	14.44	1.00	0.90	13.00		
							13.00	204.12	**2653.00**
	Basic Rate	189.00							
	Area Weightage @ 8%	15.12							
	Total	**204.12**							
31	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	Wall Portion		1	14.44	0.75	0.15	1.62		
	For Flooring		1	4.17	2.65	0.15	1.66		
							3.28	5256.36	**17252.00**
	Basic Rate	4867.00							
	Area Weightage @ 8%	389.36							
	Total	**5256.36**							
32	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6, stone** hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.6, PWD SR 2016-17**	Cum							
	Wall Portion		1	14.44	0.75	0.60	6.50		
							6.50	4521.96	**29384.00**
	Basic Rate	4187.00							
	Area Weightage @ 8%	334.96							
	Total	**4521.96**							
33	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 23 / Item No. 5.9, PWD SR 2016-17**	Cum							
	Wall Portion		1	14.44	0.45	0.45	2.92		
							2.92	5405.40	**15806.00**
	Basic Rate	5005.00							
	Area Weightage @ 8%	400.40							
	Total	**5405.40**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
34	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20cms, in depth, compacting each deposited layers by ramming after watering with lead upto 50m, and lift upto 1.5m, including cost of all labour complete as per specifications, specification. No. KBS 2.9, **Page No. 6 / Item No. 2.10 / PWD SR 2016-17**	Cum							
			Qty Vide Item No. 1				**13.00**	137.16	**1783.00**
	Basic Rate	127.00							
	Area Weightage @ 8%	10.16							
	Total	**137.16**							
35	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
	Wall Portion		1	14.44	0.45	0.10	0.65		
	Building Surroindings		2	4.40	0.45	0.10	0.40		
			2	4.00	0.45	0.10	0.36		
							1.41	5876.28	**8261.00**
	Basic Rate	5441.00							
	Area Weightage @ 8%	435.28							
	Total	**5876.28**							
36	Providing and Construction of pup panel cabin MS material vetical 50 x 100 mm thick tube, rafter 50 x 100 mm thick rectangle tube 50 x 50 mm thick tuve purlines, roof panel of 30 mm sandwitch puf panel density : 40 kg and wall panel of 30 mm sandwitch puf pannel density : 40 kgs (polyurethane foam) with noth side G I Colour coated sheet ancillaries like C-channels, angles, sealene etc, door of size 1.8 x 2.0 m an alluminium powder coated window of size 1.00 x 2.00 m 1 No of structural glazing (fixed and sliding One side slope as per elclosed drawing cabin of size etc (Approved Quoated Rate) (10 x 12 Ft)	Each							
			1				1.00		
	Approved Rate	268000.00					1.00	268000.00	**268000.00**
37	Providing and fixing Special make glazed Vitrified tiles (Granomite finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special roffe adhesive for flooring and skirting etc., complete including providing spears at required interval and removing stains etc., complete. **(P.No. 107, I.No. 14.43 of SR 2016-17).**	Sqm							
			1	4.17	2.65		11.05		
			2	4.17		0.10	0.83		
			2	2.65		0.10	0.53		
							12.41		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							12.41	1285.20	**15955.00**
	Basic Rate	1190.00							
	Area Weightage @ 8%	95.20							
	Total	**1285.20**							
38	**10000 LPD R.O. Plant**								
	RAW WATER PUMP:								
	Quantity : 1No.								
	Type: Centrifugal Mono Block								
	MOC & Make : UKL								
	Motor Rating : 0.75 HP								
	PRESSURE SAND FILTER:								
	Quantity : 1No.								
	Capacity : 1000 LPH								
	MOC & Make of Housing : UKL								
	MOC & Make of Cartridge : UKL								
	Capcity : 100 LPH								
	MOC & Make of Vessel : UKL								
	Diameter : 40 mm								
	Type of Valve : Single Multiport								
	media : Support bed + Sand								
	MICRON CARTRIDGE FILTER :								
	Quantity : 1 Set.								
	Filter Rating : 5 Microns								
	Size : 20 " Long								
	ANTISCALANT DOSING PUMPS:								
	Quanity : 1 Set								
	Type : Electro - magnetic								
	Capacity : 1.5 LPH @ 4 Bar								
	HIGH PRESSURE PUMP:								
	Quantity : 1 No								
	Capacity : 1700 LPH								
	Type of Pump : Vertical Multistage Centrigugal Pump								
	MOC : SS 304								
	Motor Rating : 2 HP, 3 Phase								
	Maximum Pressure : 12 Kg/ cm2								
	Make : UKL								
	RESERVE OSMOSIS SYSTEM :								
	Quantity : 1 No								
	Capacity : 1000 LPH								
	Module Type								
	Membrane Specifications {Polyamde}								
	Make of Membrane : UKL								
	UV STERILISER								
	Max. Treatment Flow : 1 m3/hr								
	No. of Lamps : 1 No								
	Wattage : 39 W								
	Efficiency : 99.99%								
	Material of Construction : SS 304								
	PRODUCT WATER QUALITY:								
	Appearance : Crystal Clear								
	Abide by the ISO Standards								
	S S Tank : 304 Grade with 16 guage 2000 liters Capacity								
	304 Grade 10 Gauage SS Pipe {with stream valve} 25 Ft								
	COIN BOOTH DISPENSING UNIT								
	for 5 Liters & 20 Ltrs Separately								
	Raw Water Stoage Tank : Dunction - for Storage of Raw Water								
	Type / MOC : Two / Three Layered PE tanks White / Transparent in color made from virgin material of food grade Quality suitabke fir the purpose of providing								

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Storage Drinking / Portable Water : 5000 Liters Capacity	Nos							
			1				**1**	946000.00	**946000.00**
	Approved Rate	946000.00							
	ELECTRIFCATION								
39	Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A b) Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch **(Page No. 05, Item No.2.1 KPWD SR 2014-15**	Point							
			3				**3**	245.00	**735.00**
40	c) Long point above 6Mtr upto 10Mtr from tapping point to out let via switch	Point	3				**3**	363.00	**1089.00**
41	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete (1.6.5) 4"x4"x3" (101x101x76mm) **(Page No. 03, Item No. 1.6) KPWD SR 2014-15**	Each							
			15				**15**	68.00	**1020.00**
42	(1.6.1) 12"x12"x3" (300x300x76mm)	Each	10				**10**	116.00	**1160.00**
43	(1.6.3)10"x7"x3" (254x178x76mm)	Each	8				**8**	87.00	**696.00**
44	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws. **(Page No. 17, Item No. 3.9) KPWD SR 2014-15**	SqCM							
							33333	0.25	**8333.00**
45	Extra for Groove cutting in brick wall/CC floor to the suitable depth for concealing of Conduit/GI pipe and plastering, finishing upto wall surface complete. upto 50mm conduit in brick wall **(Page No. 03, Item No.1.7.1) KPWD SR 2014-15**	Mtr							
			1	25.00			**25**	21.00	**525.00**
46	Supplying heavy gauge PVC Conduit Pipe 19/20 mm dia 2 mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. **(Page No. 02, Item No. 1.3.1) KPWD SR 2014-15**	Mtr							
			1	25.00			**25**	56.00	**1400.00**
47	Supplying and fixing PBBC/Bakelite straight or slant batten holder and wiring with 60w/230 volts lamps. **(Page No. 20, Item No. 4.2) KPWD SR 2014-15**	Each							
			1x4				**4**	88.00	**352.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
48	Supplying patti type fluorescent tube light fitting of 2' - suitable for 14 watts fluorescent tube fitting, made out of M.S. Sheet and stove enameled with HF Electronic Ballast , locking type brass contact holders mounted on double fold type sheet base fully wired for use on 230 volts AC . Supply including T5 lamp. **(Page No. 20, Item No. 4.5) KPWD SR 2014-15**	Each							
			1x4				**4**	591.00	**2364.00**
49	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A 1.5 sqmm **(Page No. 06, Item No. 2.5.2) KPWD SR 2014-15**	Mtr							
			1	15.00			**15**	18.60	**279.00**
50	Supplying and fixing cast Aluminum round or oblong type bulk head fitting with GI wire guard, glass cover with 60/100 watts 230V GLS lamp. **(Page No. 20, Item No. 4.3) KPWD SR 2014-15**	Each							
			1x8				**8**	747.00	**5976.00**
51	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia **(Page No. 55, Item No. 7.1) KPWD SR 2014-15**	No							
			1				**1**	2727.00	**2727.00**
52	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A **P No. 55/ I No. 7.4.4 4 core 16 Sqmm KPWD Electrical SR 2014-15**	Mtr							
			1	25.00			**25.00**	140.40	**3510.00**
53	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. **P No. 61 / I No. 7.8.1 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15**	Mtr							
			1	25.00			**25.00**	10.80	**270.00**
54	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete For Cutting Road Surface .(As per Civil SR KSRB I-2, P-7) **P No. 61 / I. No. 7.9.3 KPWD Electrical SR 2014-15**	Mtr							
			1	20.00			**20.00**	85.00	**1700.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
55	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm to pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV 40mm dia GI pipe **P. No. 62 / I No. 7.12.1 KPWD Electrical SR 2014-15**	Mtr							
			1	4.00			**4.00**	345.00	**1380.00**
56	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers 16Sqmm etc., **P. No. 62 / I.No. 7.13.2 KPWD Electrical SR 2014-15**	No.							
			1				**1.00**	280.00	**280.00**
	Sub Total								**8794704.00**
	KRIDL Charges @ 10%								**879470.00**
	Labour Cess @ 1%								**87947.00**
	Borewell BESCOM Deposit		9	12500.00					**112500.00**
	RO Plan BESCOM Deposit		1	25000.00					**25000.00**
								Total	**9899621.00**
Rupees Ninety Eight Lakh(s) Ninety Nine Thousand Six Hundred Twenty One Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of PWD 2016-17, PWD Elecrical 2014-15, PRED 2012-13 & approved Rate.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 07

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

22/06

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

22/06.

Modified estimate approved

Technical Sanction
Accorded For 9899621.00
Head of A/C P3273
CER NO 06/18-19 **Dt** 22.07.18

TA CE (YNK)